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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/873,829 05/09/2002		05/09/2002	Yongwon Choi	600-1-200NCIP2	6562		
23565	7590	7590 06/21/2004		EXAM	EXAMINER		
KLAUBE	R & JAC	KSON	ANDRES, JANET L				
411 HACK HACKENS			ART UNIT	PAPER NUMBER			
more)/ (CIL, 113	0,001		1646			
				DATE MAILED: 06/21/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application	No.	Applicant(s)			
Office Action Summary			09/873,829		CHOI ET AL.			
			Examiner		Art Unit			
			Janet L. And	res	1646			
	The MAILING DATE of this commun	ication appe	ears on the c	over sheet with the c	orrespondence ac	dress		
THE - Exter after - If the - If NC - Failu Any (ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this come period for reply specified above is less than thirty (3 period for reply is specified above, the maximum si re to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136 munication. 30) days, a reply v atutory period will v will, by statute, o	6(a). In no event within the statuto Il apply and will e cause the applica	however, may a reply be time ry minimum of thirty (30) days xpire SIX (6) MONTHS from tition to become ABANDONEI	nely filed s will be considered time the mailing date of this of (35 U.S.C. § 133).	ly. communication.		
Status								
1)	Responsive to communication(s) file	ed on	<u>.</u> .					
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4) ☐ Claim(s) 1-86 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-86 are subject to restriction and/or election requirement.								
Applicati	on Papers							
10)	The specification is objected to by the The drawing(s) filed on is/are Applicant may not request that any objected traving sheet(s) including the oath or declaration is objected to	: a) ☐ accep ection to the di g the correction	pted or b) rawing(s) be on is required	held in abeyance. See if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C			
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Information	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (I mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date)	ate	O-152)		

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-8, 16-24, and 25, 27, and 37 in part, drawn to polynucleotides and means of expression, classified in class 435, subclasses 69.1, 320.1, and 325, and class 536, subclass 23.5.
- II. Claims 9, 25 in part, 26, and 28, drawn to polypeptides, classified in class 530, subclass 350.
- III. Claims 10-15, and 25, 27, and 37 in part, drawn to antibodies, classified in class 530, subclass 387.1.
- IV. Claims 29-36 and 56-86, drawn to methods of treatment with agonists, classified in class 514, subclass 2.
- V. Claims 38-40 in part, drawn to methods of treatment with antagonistic antibodies, classified in class 424, subclass 158.1.
- VI. Claims 38-40 in part, drawn to method of treatment with antisense, classified in class 514, subclass 44.
- VII. Claims 41 and 42, drawn to gene therapy, classified in class 435, subclass 455.
- VIII. Claims 43-51, drawn to methods of diagnosis, classified in class 435, subclasses 6 and 7.1.
- IX. Claims 52-55, drawn to methods of modulating antigen response, classified in class 424, subclass 184.1.

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Claims appear in more than one group if they encompass more than one invention. It is noted that there are two claims 54; the second is referred to as claim 55 above but correction is required.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions differ structurally and functionally and cannot be used together or interchangeably.

Inventions I and III are also unrelated. They differ structurally and functionally and cannot be used together or interchangeably.

Inventions I and IV are not related. The polynucleotides cannot be used in the methods.

Inventions I and V are not related. The polynucleotides cannot be used in the methods.

Inventions I and VI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP

protein and hybridization assays, and the methods can be performed with other agents, such as

§ 806.05(h)). In the instant case the polynucleotides have other uses, such as generation of

antibodies.

Inventions I and VII are related as product and process of use. They are distinct because the polynucleotides have other uses, such as hybridization assays.

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Inventions I and VIII are related as product and process of use. They are distinct because the polynucleotides have other uses, such as generation of protein.

Inventions I and IX are not related. The polynucleotides cannot be used in the methods.

Inventions II and III are not related. They differ structurally and functionally and cannot

be used together or interchangeably.

Inventions II and IV are related as product and process of use. They are distinct because the proteins have other uses, such as the generation of antibodies.

Inventions II and V are not related. The polypeptides cannot be used in the methods.

Inventions II and VI are not related. The polypeptides cannot be used in the methods.

Inventions II and VII are not related. The polypeptides cannot be used in the methods.

Inventions II and VIII are distinct because the polypeptides can be detected in other ways, such as by activity assays.

Inventions II and IX are distinct because the methods can be practiced with other modulators and the polypeptides have other uses, such as the generation of antibodies.

Inventions III and IV are not related. The antibodies cannot be used in the methods.

Inventions III and V are related as product and process of use. They are distinct because the antibodies have other uses, such as protein purification.

Inventions III and VI are not related. The antibodies cannot be used in the methods.

Inventions III and VIII are not related. The antibodies cannot be used in the methods.

Inventions III and VIII are not related. The antibodies cannot be used in the methods.

Inventions III and IX are not related. The antibodies cannot be used in the methods.

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Inventions IV and V are distinct because they require different reagents and different method steps.

Inventions IV and VI are not related. They have different method steps, require different reagents, and have different goals and outcome measures.

Inventions IV and VII are not related. They have different method steps, require different reagents, and have different goals and outcome measures.

Inventions IV and VIII are not related. They have different method steps, require different reagents, and have different goals and outcome measures.

Inventions IV and IX are not related. They have different method steps, require different reagents, and have different goals and outcome measures.

Inventions V and VI are not related. They have different method steps, require different reagents, and have different goals and outcome measures.

Inventions V and VII are not related. They have different method steps, require different reagents, and have different goals and outcome measures.

Inventions V and VIII are not related. They have different method steps, different goals, and different outcome measures.

Inventions V and IX are not related. They have different method steps, different goals and different outcome measures.

Inventions VI and VII are not related. They have different method steps, require different reagents, and have different goals and outcome measures.

Inventions VI and VIII are not related. They have different method steps, require different reagents, and have different goals and outcome measures.

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Inventions VI and IX are not related. They have different method steps, require different reagents, and have different goals and outcome measures.

Inventions VII and VIII are not related. They have different method steps, different goals and different outcome measures.

Inventions VII and IX are not related. They have different method steps, different goals and different outcome measures.

Inventions VIII and IX are not related. They have different method steps, different goals and different outcome measures.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the searches required the different groups are different, restriction for examination purposes as indicated is proper.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. **Process claims that depend from or otherwise include all the limitations of the patentable product** will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR

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1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janet L. Andres whose telephone number is 571-272-0867. The examiner can normally be reached on Monday-Thursday and every other Friday, 8:00-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Kunz can be reached on 571-272-0887. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Janet L. Andres, Ph.D. Primary Examiner

16 June 2004

BITENT EXAMINER